



PATENT ABSTRACTS OF JAPAN

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(21) Application number: **10303226**(22) Date of filing: **12.10.1998**(71) Applicant: **KENWOOD CORP**(72) Inventor: **TOKIWA KAZUNORI**(54) **MULTI-LAYERED OPTICAL DISK**

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce the moving distance of a pickup and to rapidly read and write data by arranging related data or continuous data in the area of almost the same radial position between at least two layers of a multi-layered optical disk.

SOLUTION: Nearly the same areas of a radial position of a multi-layered optical disk 1 are defined as an area 1 and an area 2, and each of the areas is allotted as a recording area of map information every each metropolis, district and prefecture. Map information on the correspondent metropolis and districts is respectively recorded in the first to fourth layers of each area, wide area information on a wide area map is recorded in the first layer, detailed map information is recorded in

the second layer, path retrieval information is recorded in the third layer, and guide information such as sight-seeing and map retrieving information are recorded in the fourth layer. Related data and continuous data are arranged in the area of nearly the same radial position between two layers and the areas are concentrically arranged. Therefore, data in respective parts are read in a short time of a layer jump, a transfer distance of a pickup is reduced and data are rapidly read.

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